



SEQUENCE LISTING

<110> Zyskind, Judith W.
Forsyth, Allyn R.

<120> METHOD FOR IDENTIFYING MICROBIAL
PROLIFERATION GENES

<130> 475442001210

<140> 09/805,664

<141> 2001-03-13

<150> 08/971,090

<151> 1997-11-14

<160> 9

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer 5' to 3'

<400> 1

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18

<210> 2

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer 5' to 3'

<400> 2

acaatttcac acagcctc

18

<210> 3

<211> 546

<212> RNA

<213> Escherichia coli lepB

<400> 3

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caggaagcgu	uccucgccau	ucugcacguc	ggcaaagaca	acaaauaacc	cuuaggaguu	120
ggcauggcga	auauguuugc	ccugauucug	gugauugcca	cacuggugac	gggcauuuuu	180
uggugcgugg	auaaaauucu	uuucgcaccu	aaacggcggg	aacgucaggc	agcggcgag	240
gcggcucggg	acucacugga	uaagcaacg	uugaaaaagg	uugcgccgaa	gccuggcugg	300
cuggaaaccg	gugcuucugu	uuuuccggua	cuggcuauug	uauugauugu	gcuuucguuu	360
auuuauaagc	cguuccagau	cccugcaggu	ucgaugaugc	cgacucuguu	aaugggugau	420
uuuauucugg	uagagaaguu	ugcuuauggc	auuaaagauc	cuaucuaacca	gaaaacgcug	480
aucgaaaacg	gucauccgaa	acgcggcgau	aucguggucu	uuaaaauacc	ggaagaacca	540
aagcuu						546

<210> 4

<211> 714

<212> RNA

<213> Escherichia coli viaA

<400> 4

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aaacaaaggg	caaucaccug	aucuaagcuc	uuaccuaua	cagugauagg	uuauGCCUUU	120
uacucgacuu	uugcacugac	ugaaaaggac	aaauuaaugu	uaaaaaagau	acuuuuacug	180
gcucugcuuc	cugcaaucgc	cuucgcagag	gaacuuccug	cuccaguaaa	agcgauugaa	240
aaacaggggca	uuacaaucau	caaaacaauc	gaugccccc	gaggaaugaa	agguaaucuc	300
ggaaaguauc	aggauauggg	cgucaccauc	uaccugacuc	cagaugguaa	gcacgcuauc	360
ucugguuaca	uguacaacga	gaaaggugaa	aaccugagua	acacacuau	cgaaaaagaa	420
auuuacgcac	cagccggacg	cgaaaugugg	caacggauug	aacaauccca	cuggcuccuc	480
gacgguaaaa	aagaugcgcc	ggucauuguc	uacgucuucg	ccgauccguu	cugcccacau	540
uguaaacagu	ucuggcgagca	ggcgcgccc	uggguagauu	cuggcaaagu	gcaauuaaga	600
acauuguugg	uugggguuau	caagccagaa	agcccggcga	cagcagcggc	aaucucugcc	660
uccaaagauc	ccgcaaaaac	cuggcaacaa	uauaagccu	cugguggcaa	gcuu	714

<210> 5

<211> 714

<212> DNA

<213> Escherichia coli viaA

<400> 5

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tactcgactt	ttgcaactgc	tgaaaaggac	aaattaatgt	taaaaaagat	acttttactg	180
gctctgcttc	ctgcaatcgc	cttcgcagag	gaacttcctg	ctccagttaa	agcgattgaa	240
aaacaggggca	ttacaatcat	caaaacattc	gatgcccccg	gaggaatgaa	aggttatctc	300
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tctggttaca	tgtacaacga	gaaagggtgaa	aacctgagta	acacacttat	cgaaaaagaa	420
atttacgcac	cagccggacg	cgaaatgtgg	caacggatgg	aacaatccca	ctggctcctc	480
gacggtaaaa	aagatgcgcc	ggtcattgtc	tacgtcttcg	ccgatccgtt	ctgcccata	540
tgtaaacagt	tctggcgagca	ggcgcgccc	tgggtagatt	ctggcaaagt	gcaattaaga	600
acattgttgg	ttggggttat	caagccagaa	agcccggcga	cagcagcggc	aattcttgcc	660
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<210> 6

<211> 1050

<212> RNA

<213> Escherichia coli ddlB

<400> 6

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uguccagcau	aacgucaaua	cguccccauc	cuuugcaacc	uaacgucguc	caugcuuua	180
gcacuaaugc	cugcaaaaug	gccucuugug	acgcuuccag	accugcgggg	cagaaaauacu	240
gugucucauc	agagagauac	uucgcccua	aaucuaagaa	ggauccggac	ggugaaauac	300
guauugacgg	uaaaauuucu	ucaccgagua	ucgcaaccgu	gaacuccggc	ccacuagacc	360
auuuuucuu	caauacuucu	ucaucgugcu	gaaaugccaa	ucuaaauugca	ucuuuagag	420
cauuuucugc	uacuacuucu	gacauuccca	cacuggaacc	uucgcggcuc	ggcuuaacga	480
uaaccggcaa	accagagca	gaaauuucug	cuaacugcuu	aucgcucagg	ccuuuuucaa	540
acucugcgcg	gguaaacgcu	acccacggcg	cgaccgguaa	accggcacccu	ugccauagaa	600
guuugcugcg	uaguuuaucc	auugaaagcg	cagaugccau	cacuccgcuu	ccgguaaag	660
gcaagcccau	cagcugcagc	aucuccugca	gcguaccauc	uucaccgccc	cgaccgugua	720
gcgcgaauaa	cacuuucuga	aagcccaucg	acuucaguug	cgucacgucg	acuucuuucg	780
ggucgacagg	auacgcguca	auaccgccuu	cacgcacucc	ggcuaacacc	gcugcgccag	840
aaucagagaa	aacuucccg	ucagcgagg	uccacccaa	caggaccggc	auuuuauacg	900
ucauguuguu	cuuccuccgg	aguuuugcggc	uucaguuga	uuucagcuua	agaacgggca	960
auuuuuccaa	uauuaccagc	cccugaacg	agaauacaggu	cguuaccgggu	uaauaccgggu	1020
gccagcaucu	cggcuacccg	cgccggaucc				1050

<210> 7

<211> 451

<212> RNA

<213> Escherichia coli ampG

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acgauaguuu uuggucauuu uguugccauu cugcgcgguu gcgaugaugg cgauauccgc      180
uuuggucgcg auguuguagc gcacguugcc cugggacacg ucagcauaca guuggcuaac      240
gaugauuugc agauuaaccg ggccauucgg accaaccaug uaaccacgcg cggucaucug      300
uuuuuccagc acuucugca gcaggaaacg cagaucgcgg gaggcgguca ggguaacgau      360
uugauuauuc cgggugacuu uugccagcgc cugaucggua cgcugaucgg caccauuauu      420
gcuuacggug acgcccauca ggcuuggauc c                                     451

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<210> 8
<211> 836
<212> DNA
<213> Escherichia coli secA

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<400> 8
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atctcttatt agggatggtt gcggcgagtt taggtttgcc tgcgctcagc aacgccgccg      180
aaccaaacgc gcccgcacaa gcgacaaccc gcaaccacga gccttcagcc aaagttaact      240
ttggtcaatt ggccttgcg gaagcgaaca cacgccgccg gaattcgaac tattccgttg      300
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cgaaacact gcccgttgct gaagaatctt tgctcttca ggcgcaacat cttgcattac      420
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cgcaaggcat ccgtgctggc cctcaacgcc tcacctaaca acaataaacc tttacttcat      600
tttattaact ccgcaacgcg gggcggttga gattttatta tgctaataca attgttaact      660
aaagttttcg gtagtcgtaa cgatcgacc ctgcgccgga tgcgcaaagt ggtcaacatc      720
atcaatgcca tggaaccgga gatggaaaaa ctctccgacg aagaactgaa agggaaaacc      780
gcagagtttc gtgcacgtct ggaaaaaggc gaagtgcctg aaaatctgat cccgga      836

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<210> 9
<211> 836
<212> RNA
<213> Escherichia coli secA

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uugaccacuu ugcgcauccg gcgcagggug cgaucguuac gacuaccgaa aacuuuaguu      180
aacaauuuga uuagcauaau aaaaucucua acgccccgcg uugcggaguu aaauaaauga      240
aguaaaaggu uauuguuguu aggugaggcg uugagggcca gcacggaugc cuugcgccug      300
gcuuauccag acgggcgugc ugaauuuugc uuguggggua aaugcgcau aaucaaugcg      360
auaaccuuu ucagacggcg ugccuuccug ggucagcagc gcgcugagcg uauccaguaa      420
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aacuuuggcu gaaggcucgu gguugcgggu ugucgcuuuu gcgggcgcgu uugguucggc      660
ggcgugugc agcgcaggca aaccuaaacu cgccgcaacc aucccuauua agagaugcgg      720
ccagaaguag cguuuaccaa acugucgcca gcgcgucagu auuccacuca cguuauugcc      780
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